

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions
(formerly Eaton)

Brand: STREETWORKS

Report Number: P318799

Luminaire Tested: **GAN-SA5B-760-U-T4FT**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P318799
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-16)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA5B-760-U-T4FT
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 70 CRI, 5700K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV
FORWARD THROW OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 28733 lumens
Efficiency: N/A
Efficacy: 136.8 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G5

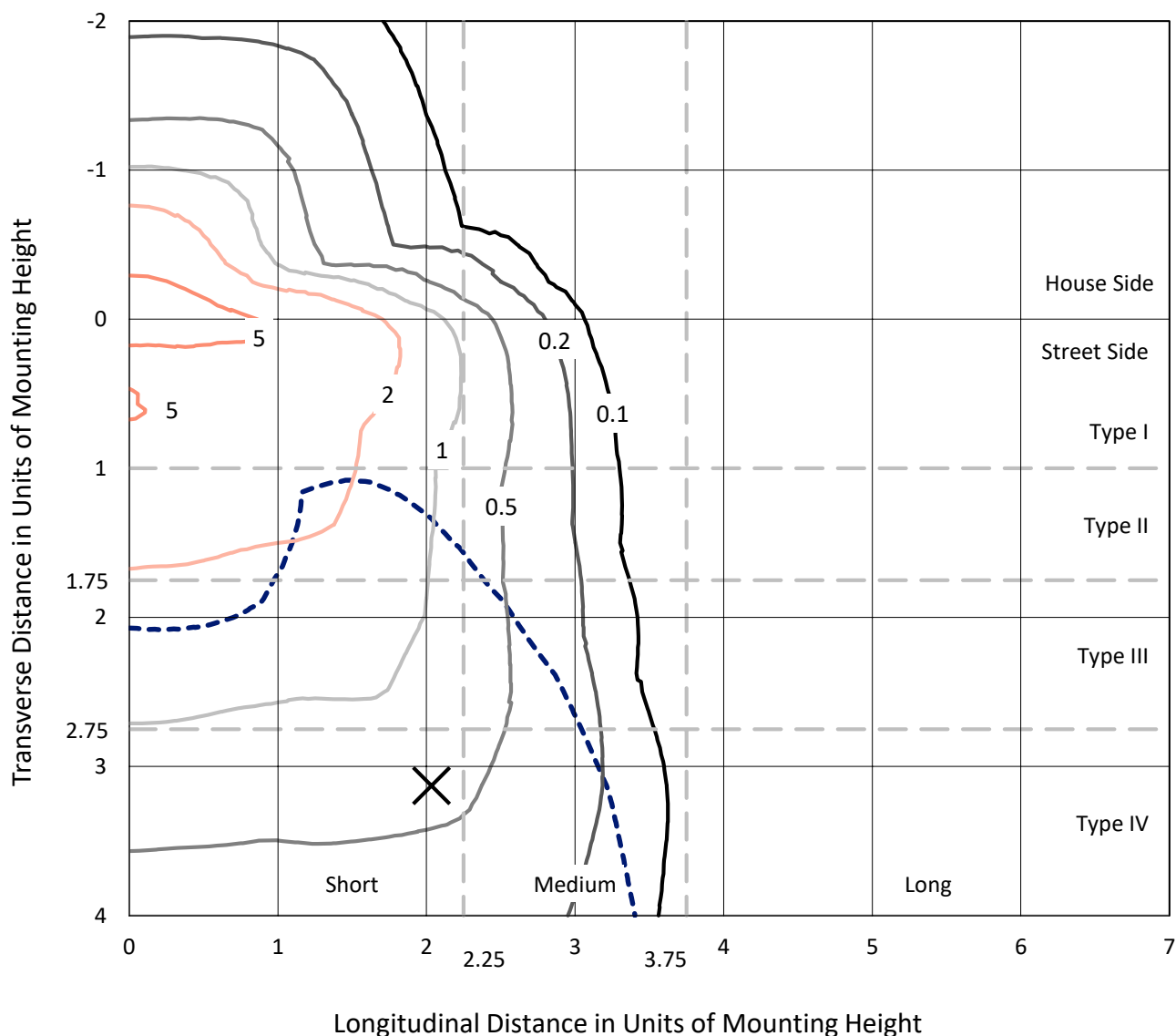
Input Watts (W): 210
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

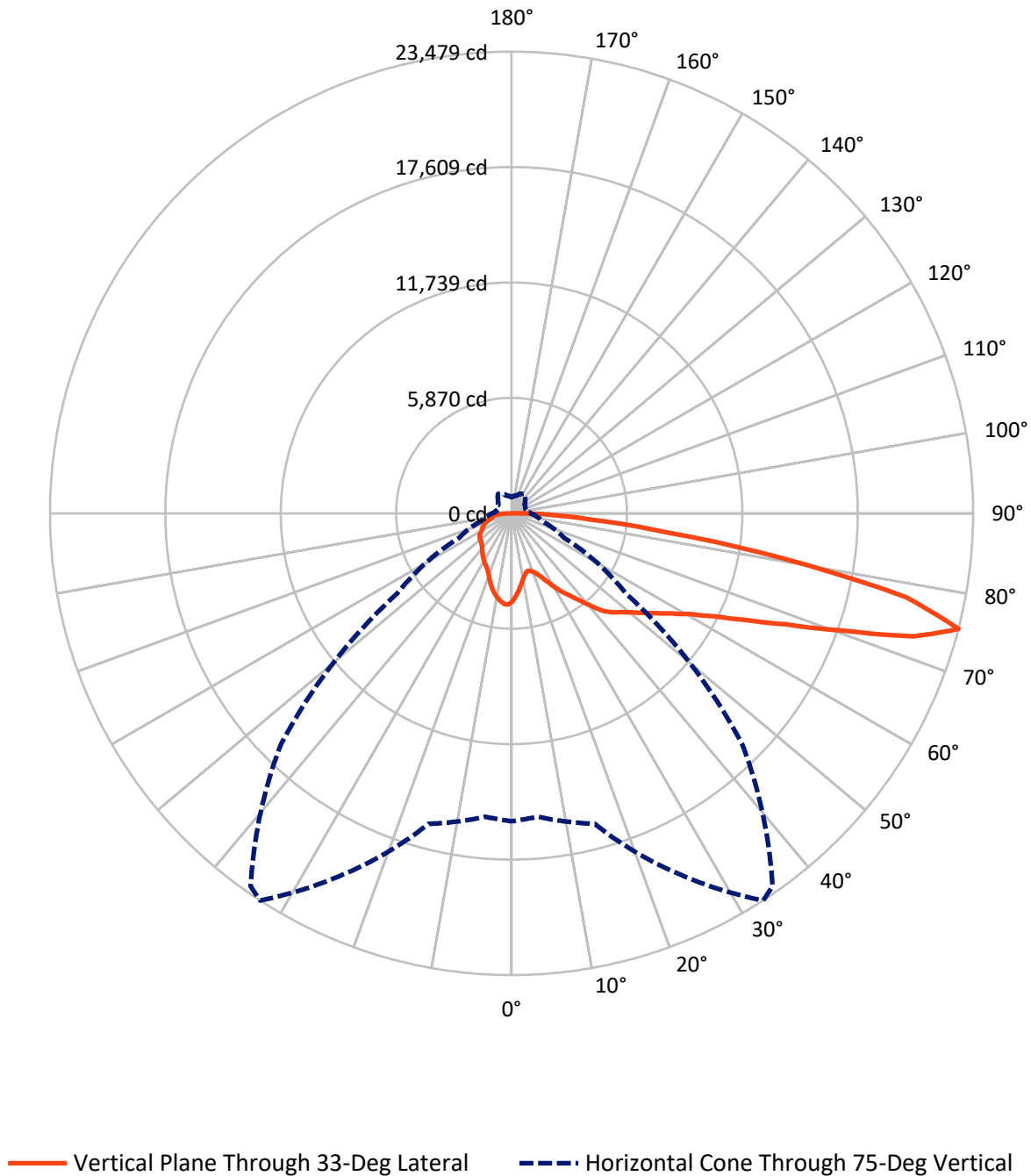
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.2 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



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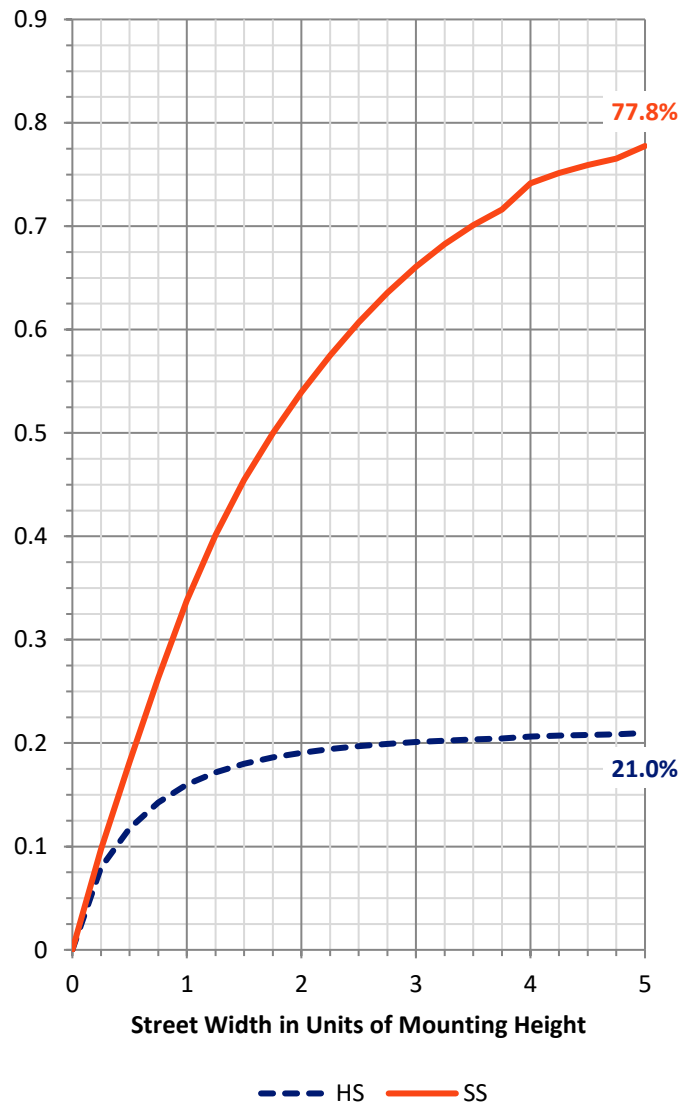
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6169.7	0.0	6169.7
	% Fixture	21.5	0.0	21.5
Street Side	Lumens	22563.3	0.0	22563.3
	% Fixture	78.5	0.0	78.5
Total	Lumens	28733.0	0.0	28733.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	406.2	1.4
10°-20°	1100.1	3.8
20°-30°	1796.6	6.3
30°-40°	2675.5	9.3
40°-50°	3837.4	13.4
50°-60°	5268.2	18.3
60°-70°	6595.5	23.0
70°-80°	5966.7	20.8
80°-90°	1086.9	3.8
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	28733.0	100.0
0°-180°	28733.0	100.0

Coefficient of Utilization



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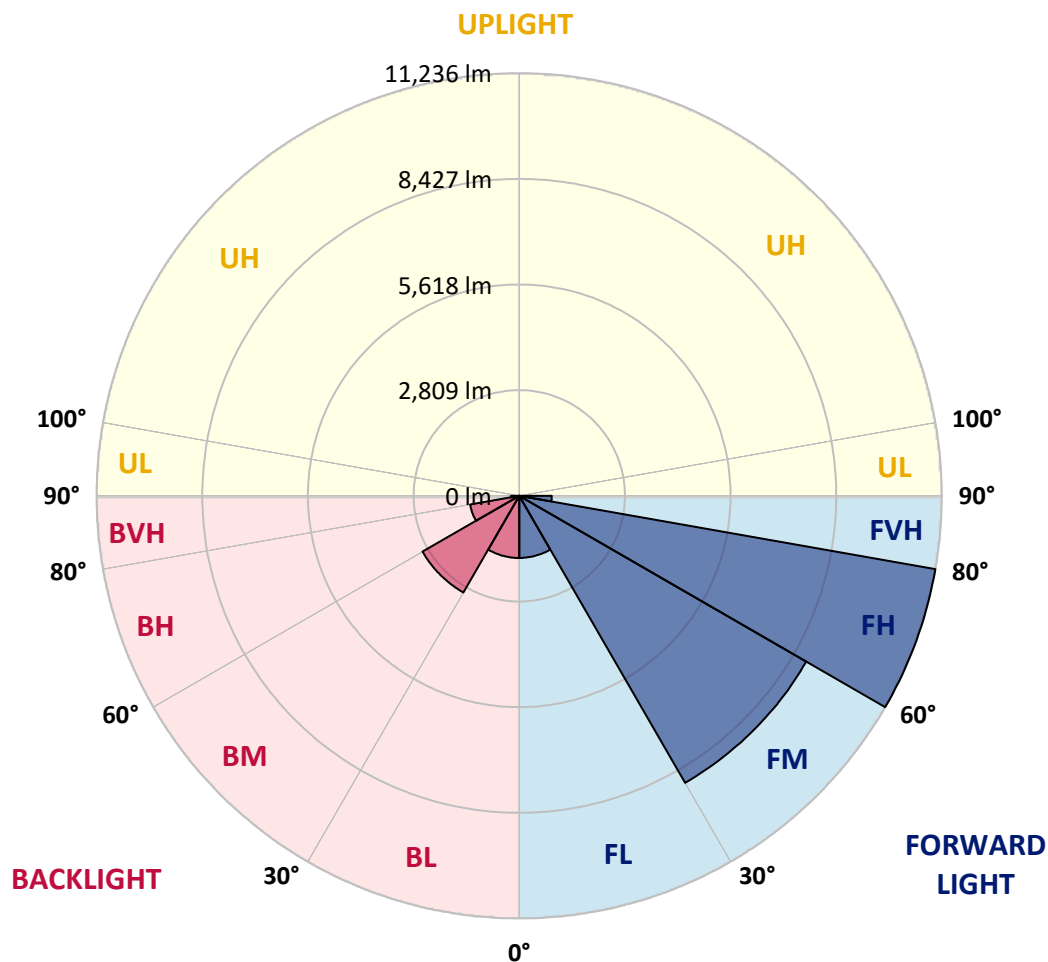
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1650.3	5.7			
FM	(30°-60°)	8811.8	30.7			
FH	(60°-80°)	11235.6	39.1			G4/12000
FVH	(80°-90°)	865.6	3.0			G5
BL	(0°-30°)	1652.5	5.8	B3/2500		
BM	(30°-60°)	2969.3	10.3	B3/5000		
BH	(60°-80°)	1326.6	4.6	B3/2500		G3/2500
BVH	(80°-90°)	221.3	0.8			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G5

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	33°	35°	45°	55°	65°	75°	85°
0°	4491.1	4491.1	4491.1	4491.1	4491.1	4491.1	4491.1	4491.1	4491.1	4491.1	4491.1
2.5°	4170.5	4154.7	4184.4	4188.4	4214.2	4224.1	4259.9	4315.5	4361.1	4413.7	4461.4
5°	3792.4	3781.5	3823.2	3852.9	3909.5	3933.3	4017.7	4135.8	4241.0	4360.1	4468.3
7.5°	3433.1	3427.2	3473.8	3541.3	3606.8	3639.6	3785.5	3957.2	4132.8	4325.4	4491.1
10°	3130.4	3128.4	3173.1	3239.6	3335.8	3372.6	3561.1	3787.4	4033.6	4298.6	4529.8
12.5°	2960.7	2967.6	2988.5	3044.0	3133.4	3170.1	3379.5	3645.5	3950.2	4289.6	4586.4
15°	3002.4	3013.3	2977.5	2975.6	3039.1	3067.9	3264.4	3544.3	3890.7	4304.5	4668.8
17.5°	3180.0	3182.0	3087.7	3028.2	3066.9	3081.8	3228.7	3486.7	3855.9	4338.3	4772.0
20°	3430.1	3425.2	3258.4	3159.2	3180.0	3184.0	3279.3	3487.7	3852.9	4396.8	4906.0
22.5°	3761.6	3724.9	3500.6	3365.6	3360.7	3354.7	3409.3	3561.1	3896.6	4492.1	5065.8
25°	4194.4	4159.6	3851.0	3666.3	3626.6	3611.8	3619.7	3718.0	3983.0	4594.4	5244.4
27.5°	4675.7	4615.2	4317.4	4056.4	3974.0	3953.2	3905.5	3939.3	4077.3	4692.6	5456.8
30°	5078.7	5045.9	4785.9	4476.2	4379.0	4349.2	4224.1	4187.4	4213.2	4826.6	5724.8
32.5°	5304.0	5282.2	5124.4	4874.2	4783.9	4742.2	4565.6	4492.1	4431.6	5038.0	6088.1
35°	5576.9	5563.0	5467.8	5286.1	5152.1	5108.5	4971.5	4895.1	4739.3	5328.8	6557.5
37.5°	5924.3	5909.4	5911.4	5764.5	5604.7	5564.0	5473.7	5393.3	5138.2	5710.9	7067.7
40°	6317.4	6288.6	6277.7	6270.7	6169.5	6146.6	6099.0	5989.8	5638.5	6167.5	7570.9
42.5°	6908.9	6806.7	6588.3	6670.7	6770.9	6759.0	6797.7	6640.9	6194.3	6707.4	8062.2
45°	7479.6	7311.9	6934.7	6952.6	7171.9	7238.4	7528.2	7417.1	6796.7	7299.0	8570.4
47.5°	7739.6	7612.6	7292.0	7293.0	7510.4	7648.3	8283.5	8204.1	7430.0	7970.9	9190.7
50°	8030.4	7903.4	7615.6	7723.7	7913.3	8060.2	9013.0	8972.3	8032.4	8706.3	9934.1
52.5°	8348.0	8132.7	7950.0	8143.6	8409.6	8580.3	9743.5	9632.4	8585.3	9446.8	10788.6
55°	8352.0	8293.5	8432.4	8574.3	8972.3	9181.8	10508.7	10215.0	9035.9	10174.3	11484.4
57.5°	8827.4	8732.1	9026.9	9092.4	9612.5	9848.7	11270.0	10722.1	9494.4	10732.1	11859.6
60°	9456.7	9375.3	9616.5	9789.2	10404.5	10720.2	12082.9	11243.2	9854.7	11152.9	11841.7
62.5°	10543.5	10451.2	10448.2	10690.4	11519.1	11886.4	12995.0	11754.4	9997.6	11236.3	11336.5
65°	12134.5	11987.6	11710.7	11825.8	13058.5	13424.8	14014.3	12124.6	9809.0	10789.6	10035.3
67.5°	13682.8	13677.8	13337.4	13573.6	15091.2	15385.0	15175.5	12161.3	9220.5	9234.4	7726.7
70°	15226.2	15246.0	15188.5	16010.3	17837.5	18143.2	16412.2	11668.0	7897.4	6668.7	4629.1
72.5°	16448.9	16444.0	16733.8	18852.8	21401.6	21333.1	17454.4	10173.3	5670.2	3599.9	2212.3
75°	15656.9	15484.2	16347.7	20260.2	23478.9	23144.5	16568.0	7096.5	2942.8	1638.6	1191.0
77.5°	10212.0	10375.7	11643.2	16736.8	20537.1	20130.2	12155.3	3311.0	1386.5	1074.9	863.5
80°	3698.1	3870.8	5451.9	9480.5	14149.3	14082.8	5985.9	1360.7	937.9	811.9	629.3
82.5°	1272.4	1335.9	2150.8	4210.2	7988.8	8286.5	2252.0	773.2	681.9	575.7	430.8
85°	499.2	571.7	983.6	2025.7	4029.6	4059.4	912.1	462.5	474.4	377.2	236.2
87.5°	189.6	230.3	470.5	940.9	1840.1	1690.3	326.5	220.3	270.0	224.3	112.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	4491.1	4491.1	4491.1	4491.1	4491.1	4491.1	4491.1	4491.1	4491.1	4491.1	4491.1
2.5°	4498.1	4518.9	4562.6	4592.4	4624.1	4633.1	4637.0	4645.0	4652.9	4649.9	4650.9
5°	4525.9	4566.6	4637.0	4666.8	4680.7	4664.8	4634.1	4609.2	4591.4	4581.4	4578.5
7.5°	4571.5	4629.1	4704.5	4699.6	4667.8	4597.3	4517.9	4458.4	4408.8	4390.9	4381.0
10°	4632.1	4699.6	4752.2	4695.6	4603.3	4481.2	4362.1	4269.8	4195.4	4166.6	4161.6
12.5°	4709.5	4778.0	4787.9	4667.8	4514.9	4348.2	4186.4	4064.3	3953.2	3917.5	3909.5
15°	4809.7	4874.2	4812.7	4619.2	4405.8	4181.5	3972.0	3806.3	3689.2	3645.5	3629.6
17.5°	4914.9	4976.5	4817.7	4538.8	4262.9	3984.0	3720.9	3551.2	3417.2	3366.6	3360.7
20°	5041.0	5068.8	4796.8	4423.6	4066.3	3727.9	3451.0	3291.2	3219.7	3184.0	3180.0
22.5°	5196.8	5167.0	4749.2	4267.8	3817.2	3432.1	3206.8	3132.4	3114.5	3106.6	3109.5
25°	5361.6	5270.3	4678.7	4064.3	3502.6	3136.3	3028.2	3049.0	3072.8	3069.8	3069.8
27.5°	5543.2	5375.5	4570.5	3794.4	3154.2	2894.2	2907.1	2983.5	3019.2	3018.2	3017.2
30°	5776.4	5494.6	4432.6	3469.8	2828.7	2723.5	2801.9	2895.2	2943.8	2941.8	2942.8
32.5°	6063.3	5625.6	4245.0	3107.6	2593.4	2597.4	2687.7	2780.0	2836.6	2831.6	2832.6
35°	6398.7	5772.5	3990.9	2750.3	2437.6	2497.2	2568.6	2633.1	2686.7	2679.8	2672.8
37.5°	6764.0	5916.4	3653.4	2430.7	2310.6	2403.9	2463.4	2474.3	2499.2	2481.3	2468.4
40°	7111.4	6026.5	3218.7	2168.6	2182.5	2324.5	2363.2	2319.5	2274.8	2268.9	2251.0
42.5°	7414.1	6063.3	2779.0	1959.2	2047.6	2241.1	2264.9	2173.6	2093.2	2055.5	2039.6
45°	7733.7	6076.2	2369.1	1783.5	1917.5	2166.7	2192.5	2070.4	1957.2	1875.9	1849.1
47.5°	8151.5	6169.5	2050.5	1653.5	1818.3	2117.0	2153.8	1988.0	1841.1	1725.0	1700.2
50°	8698.4	6354.1	1791.5	1554.3	1753.8	2084.3	2126.0	1907.6	1745.8	1605.9	1581.1
52.5°	9305.8	6523.8	1582.1	1473.9	1691.2	2026.7	2090.2	1850.0	1656.5	1495.7	1468.9
55°	9730.6	6393.8	1413.3	1390.5	1609.9	1944.3	2040.6	1801.4	1528.5	1388.5	1364.7
57.5°	9812.0	5949.1	1285.3	1304.2	1511.6	1841.1	1964.2	1693.2	1459.0	1341.9	1317.1
60°	9589.7	5329.8	1190.0	1224.8	1406.4	1711.1	1821.3	1616.8	1392.5	1292.3	1271.4
62.5°	9030.9	4695.6	1119.6	1153.3	1308.1	1579.1	1731.9	1536.4	1325.0	1235.7	1214.8
65°	7902.4	3942.3	1052.1	1089.8	1216.8	1465.0	1651.5	1462.0	1258.5	1190.0	1170.2
67.5°	5965.0	2952.7	988.5	1022.3	1135.4	1365.7	1564.2	1388.5	1194.0	1150.3	1126.5
70°	3512.5	1849.1	916.1	951.8	1050.1	1262.5	1470.9	1308.1	1113.6	1093.8	1063.0
72.5°	1634.7	1112.6	833.7	868.5	942.9	1124.5	1350.8	1202.9	1018.3	974.6	933.0
75°	975.6	813.9	736.4	767.2	819.8	977.6	1200.0	1095.7	928.0	870.4	826.8
77.5°	729.5	622.3	629.3	662.0	704.7	855.5	1063.0	1011.4	858.5	813.9	784.1
80°	525.0	472.4	513.1	548.9	593.5	778.1	1018.3	934.9	776.1	716.6	688.8
82.5°	350.4	339.4	386.1	422.8	466.5	680.9	956.8	818.8	663.0	587.6	526.0
85°	193.5	204.5	260.0	275.9	313.6	479.4	784.1	658.0	499.2	402.0	384.1
87.5°	80.4	94.3	139.9	135.0	166.7	285.8	516.1	397.0	317.6	237.2	184.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)